

for GM Linden

NJD 002 186 690

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August 31, 2012

Mr. Gary Greulich
New Jersey Department of Environmental Protection
Northern Regional Office
7 Ridgedale Avenue
Cedar Knolls, NJ 07927

RE: Remedial Action Progress Report No. 12 for the Retail Redevelopment Area Portion of the Former General Motors (GM) Linden Assembly Plant, 1016 West Edgar Road, Linden, Union County, New Jersey 07036; DUK059.701.0123.

Dear Mr. Greulich:

On May 26, 2009, the New Jersey Department of Environmental Protection (NJDEP) approved the New Jersey Remedial Action Workplan and RCRA Corrective Measures Proposal Addendum No. 1 (RAWP) for the Retail Redevelopment Area of the Former GM Linden Assembly Plant (Site; SRP PI# 014755; EA ID# SUB090001; BFO File Number: 20-09-24). The May 26, 2009 approval letter requested a Remedial Action Progress Report for the Retail Redevelopment Area on/by November 30, 2009. Subsequent reports are submitted on a quarterly basis.

This letter constitutes Remedial Action Progress Report No. 12 for the Retail Redevelopment Area. Hull & Associates, Inc. (Hull) has prepared this report on behalf of Linden Development LLC (Linden Development) to summarize remedial activities completed on the Site between June 1, 2012 and August 31, 2012.

Requirements, according to N.J.A.C. 7:26E-6.6, are shown below in ***bold italics***, with Hull/Linden Development's update following. The report certification required by N.J.A.C. 7:26E-1.5 is included in Attachment A.

1. ***NJDEP requires a description of each planned remedial action***
 - i. ***scheduled to be initiated or completed within the reporting period***
 - ii. ***actually initiated or completed during the reporting period; and***
 - iii. ***scheduled but not initiated or not completed during the reporting period, including the reasons for the noncompliance with the approved schedule.***

Soil

As outlined in the approved RAWP, the remedial activities for soils on the Retail Redevelopment Area consist of the following:

- a. Establishing deed restrictions or environmental covenants to maintain commercial/industrial land use at the Site;
- b. Regrading the site to achieve the grade necessary to support the proposed redevelopment;

- c. Constructing building slabs, parking areas and roadways and placing one foot of clean soil over geotextile fabric in future greenspaces to preclude direct contact exposures to future receptor populations and/or provide cover to historical fill material; and
- d. Surveying to demonstrate that all areas are covered with engineering controls (e.g., building slabs, parking areas and roadways) or one foot of clean soil.

These remedial activities are directly related to construction activities associated with the future redevelopment at the Site which are dependent upon finalization of agreements with end users. Linden Development has been working throughout the reporting period to finalize agreements with several end users that will ultimately occupy various portions of the Site. Given that end user agreements have not been finalized, significant construction activities described in the RAWP have not yet been initiated. Construction support activities that were conducted during the reporting period included importing fill material, as discussed below.

Fill Material Import Activities

As outlined in previous quarterly reports, Linden Development imported structural fill materials from off-site sources for use during the redevelopment consistent with the RAWP and the Revised Soil and Concrete Reuse Proposal (Revision 1.0) approved by NJDEP. During the reporting period, fill material was imported from three sources:

1. Native sand and gravel excavated from Upper Pleistocene glacial deposits as part of tunneling operations at the Metropolitan Transportation Authority / Long Island Rail Road (MTA/LIRR) East Side Access Project, Long Island City, New York.
2. Crushed aggregate from Impact Recovery and Reuse Center in Lyndhurst, NJ, which is an NJDEP-licensed Class B recycling center.
3. Sand and gravel excavated from native materials from a construction project located at 400 Park Avenue South in New York, New York.

The materials from the MTA/LIRR project consist of native sand and gravel from a virgin source. As such, characterization sampling is not required pursuant to the RAWP. Nonetheless, characterization and quality assurance sampling has been conducted and results indicate that no parameters are present above applicable cleanup levels (material meets residential criteria). Example characterization results are tabulated in Attachment B. Backup laboratory reports and fill certification documentation are provided on the compact disc in Attachment B.

Crushed aggregate imported from Impact Recovery and Reuse Center is sourced by an NJDEP-licensed Class B recycling center. Pursuant to the approved RAWP, characterization sampling for materials obtained from licensed Class B facilities is not required beyond that which is required pursuant to the facility's license. The fill supplier conducted characterization and quality assurance sampling and results indicate that no parameters are present above applicable standards. Example characterization results are

tabulated in Attachment B. Backup laboratory reports and fill certification documentation are provided on the compact disc in Attachment B.

The sand and gravel from the Park Avenue South site was characterized pursuant to the RAWP and demonstrated to meet NJDEP residential criteria. Example characterization results are tabulated in Attachment B. Backup laboratory reports and fill certification documentation are provided on the compact disc in Attachment B.

Table 1 provides a summary of the materials imported to date. All materials imported to the Retail Redevelopment Area during the reporting period were stockpiled for future use.

Groundwater

As outlined in the approved RAWP, remedial actions related to groundwater underlying the overall Retail Redevelopment Area do not appear to be necessary. However, sporadic historical concentrations of lead in limited monitoring wells have exceeded groundwater quality criteria at the Site, as observed in previous groundwater sampling data. As a result, the NJDEP may consider that an indeterminate Classification Exception Area (CEA) is necessary due to these sporadic exceedances and the presence of historical fill at the Site. Based on discussions with Mr. Greulich conducted since November 2009, the indeterminate CEA will be established by NJDEP as part of finalizing the Site NFA and will include the overburden aquifer within the Site boundaries. As discussed on November 18, 2009 and reiterated during ongoing quarterly meetings, Mr. Greulich currently maintains the information necessary to establish the indeterminate CEA (if ultimately deemed necessary) and no additional submittals by Linden Development are required.

As discussed in the previous quarterly report, Linden Development performed additional sampling within the proposed Walmart parcel as part of internal due diligence requirements for Walmart ground lease negotiations. These additional sampling activities were completed over several phases, and the sampling results were previously provided to NJDEP under separate covers. Based on the additional sampling results, trichloroethene (TCE) was detected in groundwater at concentrations exceeding the NJDEP Class IIA groundwater standard within a limited portion of the Walmart parcel near the northeast corner of the proposed Walmart building footprint. Evaluation of potential groundwater response actions associated with TCE detected in shallow groundwater within a limited portion of the Walmart parcel is ongoing and will be presented in a future summary report provided under separate cover.

Storm Sewer (AOI-18)

Remedial activities associated with AOI-18 are complete, as documented in Remedial Action Progress Report No. 1 (November 2009).

2. *NJDEP requires discussion of problems and delays in the implementation of the RAWP, which should include proposals for corrections.*

As discussed above, remedial activities are directly related to construction activities associated with the future redevelopment at the Site which are dependent upon finalization of agreements with end users. Given current economic conditions, the construction activities described in the RAWP will not be implemented until redevelopment deals with end users are finalized.

Linden Development is continuing to pursue finalization of agreements with several end users for the Retail Redevelopment Area. In the interim, conditions at the Site are stable given that GM's original cover types (asphalt, building pads, etc.) remain intact.

3. NJDEP requires proposals for a deviation from, or modification to, the approved RAWP.

No deviations from, or modifications to, the approved RAWP are planned or required at this time. In the event that additional groundwater response actions related to TCE in shallow groundwater at the Walmart parcel are determined to be required, Linden Development and Hull will work with NJDEP to promptly amend the approved RAWP.

4. NJDEP requires submittal of a revised schedule pursuant to N.J.A.C. 7:26E-6.5, to reflect the changes as noted in 1 through 3 above.

As discussed with Gary Greulich during previous quarterly meetings, implementation of the site earthwork activities is dependent on finalization of development agreements with end users. Agreements with end users are progressing, but finalization of agreements and the start of site earthwork activities are being delayed by the final appeals process associated with site plan and zoning approvals. Due to the appeals process, work anticipated to begin previously has been delayed. Linden Development will provide NJDEP with a more detailed schedule as the legal appeals are finalized.

5. NJDEP requires an updated status of all permit applications relative to the critical path schedule.

The permits required for initiation of the remedial activities are summarized below.

Permit/Approval Type	Status	Notes
Planning Board Approval	Approved 1/9/09	Site plan approved by City of Linden Planning Board
NPDES Permit (Storm Water)	Approved 9/16/09	NPDES Permit No. 0088323
Soil Conservation District	Approved 9/16/09	Approved by Somerset-Union Conservation District

6. NJDEP requires a listing of each remedial action to be performed during the next reporting period.

Agreements with end users are progressing, but finalization of agreements and the start of site earthwork activities are being delayed by the final appeals process associated with site plan and zoning approvals. Due to the appeals process, work anticipated to begin previously has been delayed. Linden Development will provide NJDEP with a more detailed schedule as the legal appeals are finalized.

Linden Development anticipates continuing to import fill material during the next reporting period.

7. NJDEP requires costs of each remedial action

- i. Annual summary of all remedial action costs incurred to date; and*
- ii. Revised cost estimate for remedial actions remaining to be performed.*

Given that significant construction and remedial implementation has not yet commenced, significant remedial costs have not yet been accrued, with the exception of minor costs for the storm sewer cleaning (i.e., approximately \$7,000) reported in Remedial Action Progress Report No. 1.

The cost estimate for completing remedial activities remains consistent with that presented in the RAWP (i.e., approximately \$7,500,000 for earthwork and construction of engineering controls).

8. NJDEP requires a tabulation of sampling results (according to N.J.A.C. 7:26E-3.13(c)3) received during the reporting period and a summary of the data and any conclusions, presented in a format consistent with N.J.A.C. 7:26E-4.8.

Sampling results associated with ongoing quality assurance sampling of the sand and gravel from the MTA/LIRR East Side Access project, aggregate from the Impact Recovery and Reuse Center, and sand and gravel from the Park Avenue South project are summarized in Attachment B.

9. NJDEP requires a summary of active groundwater remedial actions

- i. groundwater elevation maps with groundwater flow shown immediately before and during active groundwater remediation;*
- ii. graphs depicting changes in concentrations over time for all impacted wells as well as all down-gradient wells;*
- iii. summary of volume of water treated since last reporting period and the total volume treated since active remedial action commenced; and*
- iv. Summary of groundwater contamination, indicating either that contamination remains above applicable standards (include a proposal detailing additional remedial actions) or that concentrations are below applicable standards.*

As outlined in the approved RAWP, remedial actions related to groundwater underlying the Retail Redevelopment Area do not appear to be necessary (see discussion under item 1). In the event that additional groundwater response actions are required due to the TCE discovered in shallow groundwater at the Walmart parcel, Linden Development and Hull will work with NJDEP to promptly amend the approved RAWP.

10. NJDEP requires a summary of natural remediation groundwater remedial actions

- i. Summary table of the groundwater monitoring results collected; and*
- ii. Conclusions whether data indicate that natural remediation is no longer appropriate (must then also submit a revised RAWP)*

As outlined in the approved RAWP, remedial actions related to groundwater underlying the Retail Redevelopment Area do not appear to be necessary (see discussion under item 1). In the event that additional groundwater response actions are required due to the TCE

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discovered in shallow groundwater at the Walmart parcel, Linden Development and Hull will work with NJDEP to promptly amend the approved RAWP.

11. NJDEP requires a description of all wastes generated as a result of the remedial action

- i. *Tabulation of waste characterization samples collected, including the physical state of the material, volume, number of samples, analyses performed and results;*
- ii. *Listing of types and quantities of waste generated by the remedial action during the reporting period as well as to date;*
- iii. *Name of the disposal facility used;*
- iv. *Transporters' dates of disposal; and*
- v. *Manifest numbers of each waste shipment.*

No wastes were generated during the reporting period.

12. NJDEP requires that any additional support documentation that is available also be provided (photos, etc.).

Given that the majority of the remedial activities have not yet been implemented, no additional support documentation is available.

The next scheduled remedial action progress report will include remedial actions completed between September 1, 2012 and November 30, 2012. Please feel free to contact Bill Dennis at (412) 446-0315 with any questions regarding the update provided herein.

Sincerely,



Bill Dennis
Senior Project Manager

Attachments

ct: Brian Strohl – Linden Development, LLC
Clifford Ng – U.S. EPA Region 2
Joseph M. Sorge – J.M. Sorge, Inc.

TABLE

LINDEN DEVELOPMENT LLC SITE (FORMER GM LINDEN ASSEMBLY PLANT)
1016 WEST EDGAR ROAD, LINDEN, NJ
QUARTERLY REPORT NO. 12 - RETAIL REDEVELOPMENT AREA

TABLE 1
SUMMARY OF FILL MATERIALS IMPORTED AS OF MID-AUGUST 2012

Import Date	Source	Supplier	Quantity ¹	Material Type	Anticipated Site Use
Soils and Crushed Concrete - Imported Prior to Current Reporting Period ²					
Pre-February 2010	City of Rahway, NJ - Former firing range soil stockpile	City of Rahway, NJ	800 cy	Soils	Structural fill to be covered by engineering controls
Pre-February 2010	City of Linden, NJ - 2300 S. Wood Street - soil stockpile from City's Parks Dept.	City of Linden, NJ	2,865 cy	Soils	Structural fill to be covered by engineering controls
April / May 2010	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	2,973 cy	Soils	Structural fill to be covered by engineering controls
April / May 2010	Newark Public Schools Stadium - excess soils from construction project	AWT Environmental Services, Inc.	3,397 cy	Soils	Structural fill to be covered by engineering controls
May 2010	Newark Brick Tower - Residential Tower Demolition - processed backfill material	DEMREX and Altchem Environmental	15,680 cy	Soils/Crushed Concrete	Structural fill to be covered by engineering controls
June 2010	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	1,178 cy	Soils	Structural fill to be covered by engineering controls
June 2010	City of Linden, NJ - Library Site - excess soils from construction project	City of Linden, NJ	2,300 cy	Soils	Structural fill to be covered by engineering controls
July 2010	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	1,516 cy	Soils	Structural fill to be covered by engineering controls
8/24/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	658 cy	Soils	Structural fill to be covered by engineering controls
9/23/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	567 cy	Soils	Structural fill to be covered by engineering controls
9/27/2010	Weldon Materials - crushed stone (virgin source)	Weldon Materials	142 cy	Crushed Stone	Unrestricted (Virgin Source Material)
9/29/2010	Weldon Materials - crushed stone (virgin source)	Weldon Materials	55 cy	Crushed Stone	Unrestricted (Virgin Source Material)
10/5/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	699 cy	Soils	Structural fill to be covered by engineering controls
10/19/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	655 cy	Soils	Structural fill to be covered by engineering controls
12/15/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	328 cy	Soils	Structural fill to be covered by engineering controls
12/16/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	165 cy	Soils	Structural fill to be covered by engineering controls
2/17/12 through 5/15/12	MTA/LIRR East Side Access Project - native sand and gravel from installation of new railroad tunnels	Impact Environmental	10,176 cy	Soils	Unrestricted (Virgin Source Material)

LINDEN DEVELOPMENT LLC SITE (FORMER GM LINDEN ASSEMBLY PLANT)
1016 WEST EDGAR ROAD, LINDEN, NJ
QUARTERLY REPORT NO. 12 - RETAIL REDEVELOPMENT AREA

TABLE 1
SUMMARY OF FILL MATERIALS IMPORTED AS OF MID-AUGUST 2012

Import Date	Source	Supplier	Quantity ¹	Material Type	Anticipated Site Use
2/17/12 through 5/15/12	Impact Recovery and Reuse center (NJDEP Class B Recycling Facility)	Impact Environmental	4,987 cy	Soils	Structural fill to be covered by engineering controls
			Subtotal:	49,141 cy	
Soils and Crushed Concrete - Imported During Current Reporting Period					
5/16/12 through 8/17/12	400 Park Avenue South New York, NY	Impact Environmental	387 cy ³	Soils	Unrestricted (Virgin Source Material)
5/16/12 through 8/17/12	MTA/LIRR East Side Access Project - native sand and gravel from installation of new railroad tunnels	Impact Environmental	5,066 cy	Soils	Unrestricted (Virgin Source Material)
5/16/12 through 8/17/12	Impact Recovery and Reuse center (NJDEP Class B Recycling Facility)	Impact Environmental	6,446 cy	Soils	Structural fill to be covered by engineering controls
			Subtotal:	11,899 cy	
			Total for Soils and Crushed Concrete Imported to Date:	61,039 cy	
Asphalt Millings - Imported Prior to Current Reporting Period					
Pre-February 2010	City of Linden, NJ - Residential Streets - asphalt millings	City of Linden, NJ	1,434 cy	Asphalt Millings	Subgrade material for future paved areas
			Subtotal:	1,434 cy	
Asphalt Millings - Imported During Current Reporting Period					
NA	None during current reporting period	NA	0 cy		
			Subtotal:	0 cy	
			Total for Asphalt Millings Imported to Date:	1,434 cy	

Notes:

1. Quantity estimated based on import weight tickets and a conversion factor of 1.5 tons per cubic yard.
2. Materials imported prior to 2011 were stockpiled in the Industrial #1 Redevelopment Area, but the final disposition at the overall site was not yet determined. As such, the pre-2011 materials are included in the volume totals for both the Retail Redevelopment Area and Industrial #1 Redevelopment Area. Starting in 2011, imported materials were placed directly within the specific redevelopment area where the material will ultimately be used.
3. The imported material from this source totaled 773 cy and was stockpiled between the Industrial #1 and Retail Redevelopment Areas. The volume shown is 50% of the total volume imported (the other 50% was allocated to the Industrial #1 Redevelopment Area).

ATTACHMENT A

Report Certification

Certification

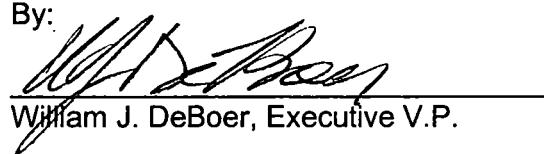
Linden Development, LLC
ISRA Case Number E20040531

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Date: 8/24/12

Linden Development, LLC

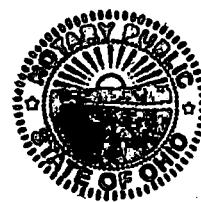
By:



William J. DeBoer, Executive V.P.

Sworn to and subscribed to before
me on this 24th day
of August, 2012

Deena E. Griest
Notary



Deena E. Griest
Notary Public-State of Ohio
My Commission Expires
May 29, 2017

ATTACHMENT B

Import Material Example Sampling Results

SAMPLING REULTS SUMMARY TABLES

Attachment B - Table 1

Characterization Sampling Results for Native Sand and Gravel from
MTA/LIRR East Side Access Project

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	GM Linden Acceptance Criteria ["]	BC-TCS-4	MDL
	Date				6/13/2012	6/13/2012
	Unit		ug/kg	ug/kg	ug/kg	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	VOC	NA	0	ND	0.96
71-55-6	1,1,1-Trichloroethane	VOC	290,000	0	ND	0.79
79-34-5	1,1,2,2-Tetrachloroethane	VOC	1,000	0	ND	0.71
79-00-5	1,1,2-Trichloroethane	VOC	2,000	0	ND	1.2
76-13-1	1,1,2 Trichloro-1,2,2 Trifluoroethane	VOC	NA	0	ND	1.2
92-52-4	1-1- Biphenyl	SVOC	3,100,000	0	ND	140
75-34-3	1,1-Dichloroethane	VOC	8,000	0	ND	0.87
75-35-4	1,1-Dichloroethene	VOC	11,000	0	ND	0.76
96-18-4	1,2,3-Trichloropropane	VOC	NA	0	ND	1.1
95-63-6	1,2,4-Trimethylbenzene	VOC	NA	0	ND	1.7
96-12-8	1,2-Dibromo-3-Chloropropane	VOC	80	0	ND	2.5
106-93-4	1,2-Dibromoethane	VOC	8	0	ND	1.2
95-50-1	1,2-Dichlorobenzene	VOC	5,300,000	0	ND	1.1
107-06-2	1,2-Dichloroethane	VOC	900	0	ND	0.67
78-87-5	1,2-Dichloropropane	VOC	2,000	0	ND	0.75
108-67-8	1,3,5-Trimethylbenzene	VOC	NA	0	ND	1.8
541-73-1	1,3-Dichlorobenzene	VOC	5,300,000	0	ND	1.2
142-28-9	1,3-Dichloropropane	VOC	NA	0	ND	1.7
542-75-6	1,3-Dichloropropene(cis and trans)	VOC	2,000	0	ND	0.88
106-46-7	1,4-Dichlorobenzene	VOC	5,000	0	ND	1.2
123-91-1	1,4-Dioxane	VOC	NA	0	ND	51
78-93-3	2-Butanone	VOC	3,100,000	0	ND	11
95-49-8	2-Chlorotoluene	VOC	NA	0	ND	0.92
108-10-1	4-Methyl-2-Pentanone	VOC	NA	0	ND	2.4
67-64-1	Acetone	VOC	70,000,000	0	ND	9.5
107-02-8	Acrolein	VOC	500	0	ND	8.8
107-13-1	Acrylonitrile	VOC	900	0	ND	1.1
71-43-2	Benzene	VOC	2,000	0	ND	0.87
92-87-5	Benzidine	SVOC	700	0	ND	220
74-97-5	Bromochloromethane	VOC	NA	0	ND	0.89
75-27-4	Bromodichloromethane	VOC	1,000	0	ND	1.1
75-25-2	Bromoform	VOC	81,000	0	ND	1.4
74-83-9	Bromomethane	VOC	25,000	0	ND	1.9
75-15-0	Carbon Disulfide	VOC	7,800,000	0	ND	1.1
56-23-5	Carbon Tetrachloride	VOC	600	0	ND	0.62
108-90-7	Chlorobenzene	VOC	510,000	0	ND	0.55
124-48-1	Chlorodibromomethane	VOC	3,000	0	ND	0.90
75-00-3	Chloroethane	VOC	220,000	0	ND	1.3
67-66-3	Chloroform	VOC	600	0	ND	0.95
74-87-3	Chloromethane	VOC	4,000	0	ND	2.3
156-59-2	cis-1,2-Dichloroethene	VOC	230,000	0	ND	0.89
74-95-3	Dibromomethane	VOC	NA	0	ND	1.3
100-41-4	Ethylbenzene	VOC	7,800,000	0	ND	0.65
98-82-8	Isopropylbenzene	VOC	NA	0	ND	0.52
79-20-9	Methyl Acetate	VOC	78,000,000	0	ND	59
75-09-2	Methylene Chloride	VOC	34,000	0	ND	2.4
1634-04-4	Methyl Tert-Butyl Ether	VOC	110,000	0	ND	1.4
91-20-3	Naphthalene	SVOC	6,000	0	ND	2.3
104-51-8	n-Butylbenzene	VOC	NA	0	ND	0.92
103-65-1	n-Propylbenzene	VOC	NA	0	ND	0.84
99-87-6	p-Isopropyltoluene	VOC	NA	0	ND	0.80
135-98-8	sec-Butylbenzene	VOC	NA	0	ND	0.81
100-42-5	Styrene	VOC	90,000	0	ND	2.1
98-06-6	tert-Butylbenzene	VOC	NA	0	ND	1.8
75-65-0	Tertiary Butyl Alcohol	VOC	1,400,000	0	ND	3.7
127-18-4	Tetrachloroethene	VOC	2,000	0	ND	0.9
108-88-3	Toluene	VOC	6,300,000	0	ND	0.71
1330-20-7	Total Xylenes	VOC	12,000,000	0	ND	1.3
156-60-5	trans-1,2-Dichloroethene	VOC	300,000	0	ND	1.2
79-01-6	Trichloroethene	VOC	7,000	0	ND	0.66
75-69-4	Trichlorofluoromethane	VOC	23,000,000	0	ND	1.2
108-05-4	Vinyl Acetate	VOC	NA	0	ND	2.2
75-01-4	Vinyl Chloride	VOC	700	0	ND	2.2

Attachment B - Table 1

Characterization Sampling Results for Native Sand and Gravel from
MTA/LIRR East Side Access Project

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	GM Linden Acceptance Criteria"	BC-TCS-4	MDL
	Date				6/13/2012	6/13/2012
	Unit		ug/kg	ug/kg	ug/kg	ug/kg
87-68-3	Hexachlorobutadiene	SVOC	6,000	0	ND	52
122-66-7	1,2-Diphenylhydrazine	SVOC	700	NA	ND	39
120-82-1	1,2,4-Trichlorobenzene	VOC	73,000	1200000	ND	57
95-95-4	2,4,5-Trichlorophenol	SVOC	6,100,000	10,000,000 c	ND	46
88-06-2	2,4,6-Trichlorophenol	SVOC	19,000	270000	ND	36
102-83-2	2,4-Dichlorophenol	SVOC	NA	3100000	ND	57
105-67-9	2,4-Dimethylphenol	SVOC	1,200,000	10,000,000 c	ND	81
51-28-5	2,4-Dinitrophenol	SVOC	120,000	2100000	ND	300
121-14-2	2,4-Dinitrotoluene	SVOC	700	NA	ND	59
606-20-2	2,6-Dinitrotoluene	SVOC	700	NA	ND	64
91-58-7	2-Chloronaphthalene	SVOC	NA	NA	ND	59
95-57-8	2-Chlorophenol	SVOC	310,000	5200000	ND	61
91-57-6	2-Methylnaphthalene	SVOC	230,000	NA	ND	77
95-48-7	2-Methylphenol	SVOC	310,000	10,000,000 c	ND	48
88-74-4	2-Nitroaniline	SVOC	39,000	NA	ND	36
88-75-5	2-Nitrophenol	SVOC	NA	NA	ND	140
91-94-1	3,3-Dichlorobenzidine	SVOC	1,000	6000	ND	71
108-39-4	m-Cresol(s)	SVOC	NA	NA	ND	280
99-09-2	3-Nitroaniline	SVOC	NA	NA	ND	22
534-52-1	4,6-Dinitro-2-methylphenol	SVOC	6,000	NA	ND	180
59-50-7	4-Chloro-3-methylphenol	SVOC	NA	10,000,000 c	ND	40
106-47-8	4-Chloroaniline	SVOC	NA	4200000	ND	66
106-44-5	4-Methylphenol	SVOC	31,000	10,000,000 c	ND	280
100-01-6	4-Nitroaniline	SVOC	NA	NA	ND	120
100-02-7	4-Nitrophenol	SVOC	NA	NA	ND	84
83-32-9	Acenaphthene	SVOC	3,400,000	100000	ND	42
208-96-8	Acenaphthylene	SVOC	NA	8600	ND	51
98-86-2	Acetophenone	SVOC	2,000	NA	ND	63
62-53-3	Aniline	SVOC	NA	NA	ND	110
120-12-7	Anthracene	SVOC	17,000,000	100000	ND	27
1912-24-9	Atrazine	SVOC	210,000	NA	ND	45
100-52-7	Benzaldehyde	SVOC	6,100,000	NA	ND	72
56-55-3	Benzo-a-Anthracene	SVOC	600	120000	ND	39
50-32-8	Benzo-a-Pyrene	SVOC	200	71000	ND	47
205-99-2	Benzo-b-Fluoranthene	SVOC	600	50000	ND	35
207-08-9	Benzo-k-Fluoranthene	SVOC	6,000	86000	ND	30
191-24-2	Benzo-g,h,i-Perylene	SVOC	380,000,000	40000	ND	50
65-85-0	Benzoic Acid	SVOC	NA	NA	ND	170
100-51-6	Benzyl Alcohol	SVOC	NA	10,000,000 c	ND	46
111-44-4	Bis(2-Chloroethyl)ether	SVOC	400	3000	ND	37
108-60-1	Bis(2-Chloroisopropyl)ether	SVOC	23,000	10,000,000 c	ND	55
117-81-7	Bis(2-Ethylhexyl)Phthalate	SVOC	35,000	210000	ND	41
85-68-7	Butylbenzylphthalate	SVOC	1,200,000	10,000,000 c	ND	55
105-60-2	Caprolactam	SVOC	31,000,000	NA	ND	42
86-74-8	Carbazole	SVOC	24,000	NA	ND	32
218-01-9	Chrysene	SVOC	62,000	120000	ND	31
132-64-9	Dibenzofuran	SVOC	NA	NA	ND	40
53-70-3	Dibenzo-a,h-Anthracene	SVOC	200	13000	ND	36
84-66-2	Diethyl Phthalate	SVOC	49,000,000	10,000,000 c	ND	34
131-11-3	Dimethyl Phthalate	SVOC	NA	10,000,000 c	ND	32
84-74-2	Di-n-Butyl Phthalate	SVOC	6,100,000	10,000,000 c	ND	33
25321-14-6	Dinitrotoluene(2,4-/2,6-)	SVOC	NA	4,000 l	ND	59
117-84-0	Di-n-Octyl Phthalate	SVOC	2,400,000	10,000,000 c	ND	53
206-44-0	Fluoranthene	SVOC	2,300,000	100000	ND	26
86-73-7	Fluorene	SVOC	2,300,000	100000	ND	36
118-74-1	Hexachlorobenzene	SVOC	300	2000	ND	31
77-47-4	Hexachlorocyclopentadiene	SVOC	45,000	7300000	ND	160
67-72-1	Hexachloroethane	SVOC	35,000	100000	ND	28
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	600	39000	ND	48
78-59-1	Isophorone	SVOC	510,000	10,000,000 c	ND	47
98-95-3	Nitrobenzene	SVOC	31,000	520000	ND	57
62-75-9	N-Nitrosodimethylamine	SVOC	700	NA	ND	130
621-64-7	N-Nitroso-di-n-Propylamine	SVOC	200	660 f	ND	55
86-30-6	N-Nitrosodiphenylamine	SVOC	99,000	600000	ND	49
87-86-5	Pentachlorophenol	SVOC	3,000	24000	ND	46
85-01-8	Phenanthrene	SVOC	NA	480000	ND	33
108-95-2	Phenol	SVOC	18000000	10,000,000 c	ND	62
129-00-0	Pyrene	SVOC	1,700,000	100,000	ND	32

Attachment B - Table 1

Characterization Sampling Results for Native Sand and Gravel from
MTA/LIRR East Side Access Project

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	GM Linden Acceptance Criteria ["]	BC-TCS-4	MDL
	Date				6/13/2012	6/13/2012
	Unit		ug/kg	ug/kg	ug/kg	ug/kg
93-76-5	2,4,5-T	HERBICIDE	NA	NA	ND	55.3
93-72-1	2,4,5-TP Acid	PESTICIDE	NA	NA	ND	66.9
94-75-7	2,4-D	HERBICIDE	NA	NA	ND	77.7
72-54-8	4,4-DDD	PESTICIDE	3,000	13,000	ND	0.642
72-55-9	4,4-DDE	PESTICIDE	2,000	9,000	ND	0.416
50-29-3	4,4-DDT	PESTICIDE	2,000	8,000	ND	1.45
309-00-2	Aldrin	PESTICIDE	40	200	ND	0.634
319-84-6	alpha-BHC	PESTICIDE	100	500	ND	0.213
5103-71-9	Alpha Chlordane	PESTICIDE	NA	NA	ND	0.628
12674-11-2	Aroclor 1016	PCB	NA	NA	ND	7.4
1104-28-2	Aroclor 1221	PCB	NA	NA	ND	11.3
11141-16-5	Aroclor 1232	PCB	NA	NA	ND	7.96
53469-21-9	Aroclor 1242	PCB	NA	NA	ND	7.11
12672-29-6	Aroclor 1248	PCB	NA	NA	ND	4.53
11097-69-1	Aroclor 1254	PCB	NA	NA	ND	5.91
11096-82-5	Aroclor 1260	PCB	NA	NA	ND	6.5
319-85-7	beta-BHC	PESTICIDE	400	NA	ND	0.683
57-74-9	Chlordane	PESTICIDE	200	NA	ND	5.97
319-86-8	delta-BHC	PESTICIDE	NA	NA	ND	0.353
1918-00-9	Dicamba	HERBICIDE	NA	NA	ND	11.3
60-57-1	Dieldrin	PESTICIDE	40	200	ND	0.563
115-29-7	Endosulfan	PESTICIDE	470,000	6,800,000	ND	0.426
959-98-8	Endosulfan I	PESTICIDE	NA	NA	ND	0.426
33213-65-9	Endosulfan II	PESTICIDE	NA	NA	ND	0.602
1031-07-8	Endosulfan Sulfate	PESTICIDE	470,000	NA	ND	0.343
72-20-8	Endrin	PESTICIDE	23,000	23,000	ND	0.308
58-89-9	gamma-BHC	PESTICIDE	400	400	ND	0.336
5103-74-2	Gamma Chlordane	PESTICIDE	NA	NA	ND	0.594
76-44-8	Heptachlor	PESTICIDE	100	100	ND	0.404
1024-57-3	Heptachlor Epoxide	PESTICIDE	70	70	ND	1.01
72-43-5	Methoxychlor	PESTICIDE	390,000	390,000	ND	1.05
56-38-2	Parathion	PESTICIDE	NA	NA	ND	39
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	200	200	ND	-
8001-35-2	Toxaphene	PESTICIDE	600	600	ND	9.46
	Unit		mg/kg	mg/kg	mg/kg	mg/kg
7429-90-5	Aluminum, Al	METAL	78,000	NA	3,600	2.00
7440-36-0	Antimony, Sb	METAL	31	353	ND	0.87
7440-38-2	Arsenic, As	METAL	19	178	0.96	0.31
7440-39-3	Barium, Ba	METAL	16,000	17400	22	0.08
7440-41-7	Beryllium, Be	METAL	16	16.2	0.19 J	0.03
7440-43-9	Cadmium, Cd	METAL	78	51.4	ND	0.06
7440-47-3	Chromium, Cr	METAL	NA	247	6.9	0.18
18540-29-9	Chromium, hexavalent	METAL	NA	6100; 20 g; i	6.9	0.95
16065-83-1	Chromium, trivalent	METAL	NA	j	ND	0.95
7440-48-4	Cobalt, Co	METAL	NA	124	7	0.20
7440-50-8	Copper, Cu	METAL	NA	1500	8.6	0.42
57-12-5	Cyanide	METAL	1,600	21,000 o	ND	1.1
7439-89-6	Iron, Fe	METAL	NA	NA	7,100	1.6
7439-92-1	Lead, Pb	METAL	400	1000	4.5 J	0.25
7439-96-5	Manganese, Mn	METAL	11,000	2200	120	0.09
7439-97-6	Mercury, Hg	METAL	23	0.85	ND	0.02
7440-02-0	Nickel, Ni	METAL	1,600	1170	6.1	0.25
7782-49-2	Selenium, Se	METAL	390	11.7	0.33 J	0.30
7440-22-4	Silver, Ag	METAL	390	95	ND	0.15
7440-28-0	Thallium, Ti	METAL	5	1.8	ND	0.57
7440-62-2	Vanadium, V	METAL	78	155	11	0.20
7440-66-6	Zinc, Zn	METAL	23,000	1500	14	0.49
	pH	pH	NA	NA	9.6	-
	TPH	TPH	NA	NA	ND	3770

Notes:

1. Shaded values indicate an exceedance of NJRDCSRS and GM Linden Acceptance Criteria values.
2. "J"- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit

Quarterly Report No. 12 - Retail Redevelopment Area (Former GM Linden)

Attachment B - Table 1

Characterization Sampling Results for Native Sand and Gravel from
MTA/LIRR East Side Access Project

CAS Number	Parameter Name	Parameter ID	TCLP Hazardous Waste Regulatory Levels	BC-TCS-4	MDL
	Unit		mg/L	mg/L	mg/L
7440-38-2	Arsenic, As	METAL	5	ND	0.02
7440-39-3	Barium, Ba	METAL	100	0.26	0.01
7440-43-9	Cadmium, Cd	METAL	1	ND	0.01
7440-47-3	Chromium, Cr	METAL	5	ND	0.02
7439-92-1	Lead, Pb	METAL	5	ND	0.02
7439-97-6	Mercury, Hg	METAL	0.2	ND	0.0003
7782-49-2	Selenium, Se	METAL	1	ND	0.03
7440-22-4	Silver, Ag	METAL	5	ND	0.01

Quarterly Report No. 12 - Retail Redevelopment Area (Former GM Linden)

Attachment B - Table 2 - Characterization Sampling Results for Impact Recovery and Reuse Center (Lyndhurst, NJ)

Quarterly Report No. 12 - Retail Redevelopment Area (Former GM Linden)

Attachment B - Table 2 - Characterization Sampling Results for Impact Recovery and Reuse Center (Lyndhurst, NJ)

CAS Number	Parameter Name	Parameter ID	GM Linden Acceptance Criteria	A-0024	RCM-0024	A-0025	B-0025	A-0026	B-0026	C-0026
Sample ID	Depth									
Date				5/29/2012	5/29/2012	6/29/2012	6/29/2012	7/6/2012	7/6/2012	7/6/2012
Unit				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
99-09-2	3-Nitroaniline	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
534-52-1	4,6-Dinitro-2-methylphenol	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
59-50-7	4-Chloro-3-methylphenol	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
105-47-8	4-Chloroaniline	SVOC	4200000	ND	ND	ND	ND	ND	ND	ND
105-44-5	4-Methylphenol	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
100-01-6	4-Nitroaniline	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
100-02-7	4-Nitrophenol	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
83-32-9	Acenaphthene	SVOC	100000	ND	ND	ND	ND	ND	ND	ND
208-96-8	Acenaphthylene	SVOC	8600	ND	ND	ND	ND	ND	ND	ND
98-86-2	Acetophenone	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
62-53-3	Aniline	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
120-12-7	Anthracene	SVOC	100000	ND	ND	ND	ND	ND	ND	ND
1912-24-9	Atrazine	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
100-52-7	Benzaldehyde	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
56-55-3	Benzo-a-Anthracene	SVOC	120000	ND	ND	ND	ND	400	340	ND
50-32-8	Benzo-a-Pyrene	SVOC	71000	ND	ND	ND	ND	380	320	ND
205-99-2	Benzo-b-Fluoranthene	SVOC	50000	ND	ND	ND	ND	460	420	ND
207-08-9	Benzo-k-Fluoranthene	SVOC	86000	ND	ND	ND	ND	220	ND	ND
191-24-2	Benzo-g,h,-Perylene	SVOC	40000	ND	ND	ND	ND	ND	ND	ND
65-85-0	Benzoic Acid	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
100-51-6	Benzyl Alcohol	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	660
111-44-4	Bis(2-Chloroethyl)ether	SVOC	3000	ND	ND	ND	ND	ND	ND	ND
108-60-1	Bis(2-Chloroisopropyl)ether	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
117-81-7	Bis(2-Ethylhexyl)Phthalate	SVOC	210000	ND	ND	ND	ND	ND	ND	11000
85-68-7	Butylbenzylphthalate	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
105-60-2	Caprolactam	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
218-01-9	Chrysene	SVOC	120000	ND	ND	ND	ND	440	360	ND
132-64-9	Dibenzofuran	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
53-70-3	Dibenzo-a,h-Anthracene	SVOC	13000	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl Phthalate	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
131-11-3	Dimethyl Phthalate	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-Butyl Phthalate	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
25321-14-6	Dinitrotoluene(2,4-/2,6-)	SVOC	4,000 l	ND	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-Octyl Phthalate	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	3200
206-44-0	Fluoranthene	SVOC	100000	ND	ND	590	ND	840	690	360
86-73-7	Fluorene	SVOC	100000	ND	ND	ND	ND	ND	ND	ND
118-74-1	Hexachlorobenzene	SVOC	2000	ND	ND	ND	ND	ND	ND	ND
77-47-4	Hexachlorocyclopentadiene	SVOC	7300000	ND	ND	ND	ND	ND	ND	ND
67-72-1	Hexachloroethane	SVOC	100000	ND	ND	ND	ND	ND	ND	ND
193-39-5	Indeno[1,2,3-cd]Pyrene	SVOC	39000	ND	ND	ND	ND	290	ND	ND
78-59-1	Isonaphthalene	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
98-95-3	Nitrobenzene	SVOC	520000	ND	ND	ND	ND	ND	ND	ND
62-75-9	N-Nitrosodimethylamine	SVOC	NA	ND	ND	ND	ND	ND	ND	ND
621-64-7	N-Nitrosodi-n-Propylamine	SVOC	660 f	ND	ND	ND	ND	ND	ND	ND
86-30-6	N-Nitrosodiphenylamine	SVOC	600000	ND	ND	ND	ND	ND	ND	ND
87-86-5	Pentachlorophenol	SVOC	24000	ND	ND	ND	ND	ND	ND	ND
85-01-8	Phenanthrene	SVOC	480000	ND	ND	350	ND	490	410	250
108-95-2	Phenol	SVOC	10,000,000 c	ND	ND	ND	ND	ND	ND	ND
129-00-0	Pyrene	SVOC	100,000	ND	ND	530	ND	770	640	330
93-76-5	2,4,5-T	HERBICIDE	NA	ND	ND	ND	ND	ND	ND	ND
93-72-1	2,4,5-TP Acid	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
94-75-7	2,4-D	HERBICIDE	NA	ND	ND	ND	ND	ND	ND	ND
72-54-8	4,4-DDD	PESTICIDE	13,000	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4-DDE	PESTICIDE	9,000	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4-DDT	PESTICIDE	8,000	ND	ND	ND	ND	ND	ND	ND
309-00-2	Aldrin	PESTICIDE	200	ND	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	PESTICIDE	500	ND	ND	0.968	ND	ND	ND	ND
5103-71-9	Alpha Chlordane	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
12674-11-2	Aroclor 1016	PCB	NA	ND	ND	ND	ND	ND	ND	ND
1104-28-2	Aroclor 1221	PCB	NA	ND	ND	ND	ND	ND	ND	ND
11141-16-5	Aroclor 1232	PCB	NA	ND	ND	ND	ND	ND	ND	ND
53469-21-9	Aroclor 1242	PCB	NA	ND	ND	ND	ND	ND	ND	ND
12672-29-5	Aroclor 1248	PCB	NA	ND	ND	ND	ND	ND	ND	ND
11097-69-1	Aroclor 1254	PCB	NA	ND	ND	ND	ND	ND	ND	ND
11096-82-5	Aroclor 1260	PCB	NA	ND	ND	ND	ND	ND	ND	ND
319-85-7	beta-BHC	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
57-74-9	Chlordane	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
1918-00-9	Dicamba	HERBICIDE	NA	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	PESTICIDE	200	ND	ND	ND	ND	ND	ND	ND
115-29-7	Endosulfan	PESTICIDE	6,800,000	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan Sulfate	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
72-20-8	Endrin	PESTICIDE	23,000	ND	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	PESTICIDE	400	ND	ND	ND	ND	ND	ND	ND
5103-74-2	Gamma Chlordane	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	PESTICIDE	100	ND	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor Epoxide	PESTICIDE	70	ND	ND	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	PESTICIDE	390,000	ND	ND	ND	ND	ND	ND	ND
56-38-2	Parathion	PESTICIDE	NA	ND	ND	ND	ND	ND	ND	ND

Quarterly Report No. 12 - Retail Redevelopment Area (Former GM Linden)

Attachment B - Table 2 - Characterization Sampling Results for Impact Recovery and Reuse Center (Lyndhurst, NJ)

CAS Number	Parameter Name	Parameter ID	GM Linden Acceptance Criteria	A-0024	RCM-0024	A-0025	B-0025	A-0026	B-0026	C-0026
				Date	5/29/2012					
				Unit	ug/kg					
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	1000	ND	ND	ND	ND	ND	ND	ND
8001-35-2	Toxaphene	PESTICIDE	600	ND	ND	ND	ND	ND	ND	ND
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
7429-90-5	Aluminum, Al	METAL	NA	10000	9100	8100	7100	8700	8000	8300
7440-36-0	Antimony, Sb	METAL	353	ND	ND	5.4	ND	ND	ND	ND
7440-38-2	Arsenic, As	METAL	178	5.3	100	3.6	2.7	3.6	3.7	3.4
7440-39-3	Barium, Ba	METAL	17400	95	60	81	62	91	85	78
7440-41-7	Beryllium, Be	METAL	16.2	0.51	0.48	ND	ND	0.46	0.42	0.44
7440-43-9	Cadmium, Cd	METAL	51.4	ND	ND	ND	ND	ND	ND	ND
7440-47-3	Chromium, Cr	METAL	247	21	80	15	13	20	17	16
18540-29-9	Chromium, hexavalent	METAL	6100; 20 g; i	ND	58	ND	ND	ND	ND	ND
16065-83-1	Chromium, trivalent	METAL	j	21	22	15	13	0	0	0
7440-48-4	Cobalt, Co	METAL	124	7.5	4.7	6.5	4.8	6.2	6.2	6.1
7440-50-8	Copper, Cu	METAL	1500	44	11	27	16	28	25	22
57-12-5	Cyanide	METAL	21,000 o	ND	ND	ND	ND	ND	ND	ND
7439-89-6	Iron, Fe	METAL	NA	17000	10000	13000	12000	14000	13000	14000
7439-92-1	Lead, Pb	METAL	1000	73	4.6	61	20	85	95	46
7439-96-5	Manganese, Mn	METAL	2200	300	210	240	270	250	220	270
7439-97-6	Mercury, Hg	METAL	0.85	0.26	ND	0.21	ND	0.25	0.28	0.12
7440-02-0	Nickel, Ni	METAL	1170	23	16	16	13	16	16	15
7782-49-2	Selenium, Se	METAL	11.7	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver, Ag	METAL	95	ND	ND	ND	ND	ND	ND	ND
7440-28-0	Thallium, Ti	METAL	1.8	ND	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium, V	METAL	155	28	18	20	26	25	22	21
7440-66-6	Zinc, Zn	METAL	1500	300	19	56	41	90	88	66
	TPH-DRO	TPH	NA	295	ND	164	56.4	227	350	189

Quarterly Report No. 12 - Retail Redevelopment Area (Former GM Linden)

Attachment B - Table 2 - Characterization Sampling Results for Impact Recovery and Reuse Center (Lyndhurst, NJ)

CAS Number	Parameter Name	Parameter ID	TCLP Hazardous Waste Regulatory Levels	A-0024	RCM-0024	A-0025	B-0025	A-0026	B-0026	C-0026
	Sample ID		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Unit									
7440-38-2	Arsenic, As	METAL	5	ND	ND	ND	ND	0.02	ND	0.02
7440-39-3	Barium, Ba	METAL	100	ND	ND	ND	0.65	0.29	0.31	0.29
7440-43-9	Cadmium, Cd	METAL	1	ND	ND	ND	ND	ND	ND	ND
7440-47-3	Chromium, Cr	METAL	5	ND	ND	ND	ND	ND	ND	ND
7439-92-1	Lead, Pb	METAL	5	ND	ND	ND	ND	0.02	0.05	ND
7439-97-6	Mercury, Hg	METAL	0.2	ND	ND	ND	ND	ND	ND	ND
7782-49-2	Selenium, Se	METAL	1	ND	ND	ND	ND	ND	ND	ND
7440-22-4	Silver, Ag	METAL	5	ND	ND	ND	ND	ND	ND	ND

Attachment B - Table 3 - Characterization Sampling Results for 400 Park Avenue South, New York, New York

CAS Number	Parameter Name	Parameter ID	NJ NRDCSRs	NJ IGWSRS	WC-1 COMP NATIVE Q	WC-1A GRAB NATIVE (22') Q	WC-3 COMP NATIVE Q	WC-3A NATIVE GRAB (23.5') Q	WC-4 COMP NATIVE Q	WC-4A NATIVE GRAB (23.5') Q	WC-5 COMP NATIVE Q	WC-5A GRAB VOC Q	WC-6 COMP NATIVE Q	WC-6A GRAB VOC Q	WC-7 COMP NATIVE Q	WC-7A GRAB VOC Q	WC-2A	WC-2B	WC-4A	WC-4B	WC-6A	WC-6B
					5/29/2012	5/29/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	ELB-1 15-27, ELB-2 10-24.5	ELB-1 15-27, ELB-2 10-24.5	ELB-4 14-14.5	ELB-3 6-20, ELB-4 12-23	ELB-5 20-20.5	ELB-5 5.5-23.5, ELB-6 9-30	
	Sample ID	Depth			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
630-20-6	1,1,2-Tetrachloroethane	VOC	NA	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.98 U		0.99 U				
71-55-6	1,1,1-Trichloroethane	VOC	4,200,000	50		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.98 U		0.99 U		ND	ND	
79-34-5	1,1,2,2-Tetrachloroethane	VOC	3,000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U		0.99 U		ND	ND	
79-00-5	1,1,2-Trichloroethane	VOC	6,000	1		1.8 U		1.4 U		1.5 U		1.5 U		1.5 U		1.5 U		1.5 U		ND	ND	
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	VOC	NA	24	U		19 U		20 U		20 U		20 U		20 U		20 U		ND	ND		
92-52-4	1,1-Biphenyl	SVOC	34,000,000	NA	400	U		400 U		420 U		410 U		400 U		420 U		420 U		ND	ND	
75-34-3	1,1-Dichloroethane	VOC	24,000	10		1.8 U		1.4 U		1.5 U		1.5 U		1.5 U		1.5 U		1.5 U		ND	ND	
75-35-4	1,1-Dichloroethene	VOC	150,000	10		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U		0.99 U		ND	ND	
96-18-4	1,2,3-Trichloropropane	VOC	NA	NA		12 U		9.6 U		9.8 U		9.9 U		9.8 U		9.8 U		9.9 U				
95-63-6	1,2,4-Trimethylbenzene	VOC	NA	NA		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U						
96-12-8	1,2-Dibromo-3-Chloropropane	VOC	200	NA		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
106-93-4	1,2-Dibromopethane	VOC	40	NA		4.8 U		3.8 U		3.9 U		4 U		3.9 U		4 U				ND	ND	
95-50-1	1,2-Dichlorobenzene	VOC	NA	50		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
107-06-2	1,2-Dichloroethane	VOC	3,000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U				ND	ND	
78-87-5	1,2-Dichloropropane	VOC	5,000	NA		4.2 U		3.4 U		3.4 U		3.4 U		3.4 U		3.5 U				ND	ND	
108-67-8	1,3,5-Trimethylbenzene	VOC	NA	NA		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
541-73-1	1,3-Dichlorobenzene	VOC	59,000,000	100		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
142-28-9	1,3-Dichloropropane	VOC	NA	NA		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
542-75-6	1,3-Dichloropropene(cis and trans)	VOC	7,000	1																		
106-46-7	1,4-Dichlorobenzene	VOC	13,000	100		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
123-91-1	1,4-Dioxane	VOC	NA	NA		120 U		96 U		98 U		99 U		98 U		99 U				ND	ND	
78-93-3	2-Butanone	VOC	44,000,000	50		12 U		9.6 U		9.8 U		9.9 U		9.8 U		9.9 U				ND	ND	
95-49-8	2-Chlorotoluene	VOC	NA	NA		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
108-10-1	4-Methyl-2-Pentanone	VOC	NA	50		12 U		9.6 U		9.8 U		9.9 U		9.8 U		9.9 U				ND	ND	
67-64-1	Acetone	VOC	NA	100		12 U		9.6 U		9.8 U		9.9 U		9.8 U		9.9 U				ND	ND	
107-02-8	Acrolein	VOC	1000	NA		30 U		24 U		25 U		25 U		24 U		25 U				ND	ND	
107-13-1	Acrylonitrile	VOC	3,000	1		12 U		9.6 U		9.8 U		9.9 U		9.8 U		9.9 U				ND	ND	
71-43-2	Benzene	VOC	5,000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U				ND	ND	
92-87-5	Benzidine	SVOC	700	NA	570	U		590 U		600 U		590 U		580 U		610 U				ND	ND	
74-97-5	Bromochloromethane	VOC	NA	NA		6 U		4.8 U		4.9 U		4.9 U		4.9 U		5 U				ND	ND	
75-27-4	Bromodichloromethane	VOC	3,000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U				ND	ND	
75-25-2	Bromoform	VOC	280,000	1		4.8 U		3.8 U		3.9 U		4 U		3.9 U		4 U				ND	ND	
74-83-9	Bromomethane	VOC	59,000	1		2.4 U		1.9 U		2 U		2 U		2 U		2 U				ND	ND	
75-15-0	Carbon Disulfide	VOC	110,000,000	NA		12 U		9.6 U		9.8 U		9.9 U		9.8 U		9.9 U				ND	ND	
56-23-5	Carbon Tetrachloride	VOC	2000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U				ND	ND	
108-90-7	Chlorobenzene	VOC	7,400,000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U				ND	ND	
124-48-1	Chlorodibromomethane	VOC	8,000	1		1.2 U		0.96 U		0.98 U		0.99 U		0.98 U		0.99 U				ND	ND	
75-00-3	Chloroethane	VOC	1,100,000	NA		2.4 U		1.9 U		2 U		2 U		2 U		2 U				ND	ND	
67-66-3	Chloroform	VOC	2000	1		1.8 U		1.4 U		1.5 U		1.5 U		1.5 U		1.5 U				ND	ND	
74-87-3	Chl																					

Attachment B - Table 3 - Characterization Sampling Results for 400 Park Avenue South, New York, New York

CAS Number	Parameter Name	Parameter ID	NJ NRDCSRS	NJ IGWSRS	WC-1 COMP NATIVE Q	WC-1A GRAB NATIVE (22') Q	WC-3 COMP NATIVE Q	WC-3A NATIVE GRAB (23.5') Q	WC-4 COMP NATIVE Q	WC-4A NATIVE GRAB (23.5') Q	WC-5 COMP NATIVE Q	WC-5A GRAB VOC Q	WC-6 COMP NATIVE Q	WC-6A GRAB VOC Q	WC-7 COMP NATIVE Q	WC-7A GRAB VOC Q	WC-2A	WC-2B	WC-4A	WC-4B	WC-6A	WC-6B	
																		ELB-2 21.5-22, ELB-2 10-24.5	ELB-4 14-	ELB-5 20-20.5	ELB-6 9-30		
	Sample ID	Depth																ELB-2 21.5-22	14.5	ELB-4 12-23	ELB-5 20-20.5	ELB-6 9-30	
	Date				5/29/2012	5/29/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	5/30/2012	10/20/2011	10/21/2011	10/24/2011	10/25/2011	10/28/2011	10/29/2011
	Unit	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
91-58-7	2-Chloronaphthalene	SVOC	NA	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
95-57-8	2-Chlorophenol	SVOC	2,200,000	10	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
91-57-6	2-Methylnaphthalene	SVOC	2,400,000	NA	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U	ND	ND	ND	ND	ND	ND	
95-48-7	2-Methyphenol	SVOC	3,400,000	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
88-74-4	2-Nitroaniline	SVOC	23,000,000	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
88-75-5	2-Nitrophenol	SVOC	NA	NA	370 U	380 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	390 U	ND	ND	ND	ND	ND	ND	
91-94-1	3,3-Dichlorobenzidine	SVOC	4,000	100	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
108-39-4	m-Cresol(s)	SVOC	NA	NA													ND	ND	ND	ND	ND	ND	
99-09-2	3-Nitroaniline	SVOC	NA	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
534-52-1	4,6-Dinitro-2-methylphenol	SVOC	68,000	NA	450 U	460 U	470 U	470 U	470 U	470 U	470 U	470 U	470 U	470 U	470 U	470 U	ND	ND	ND	ND	ND	ND	
59-50-7	4-Chloro-3-methylphenol	SVOC	NA	100	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
106-47-8	4-Chloroaniline	SVOC	NA	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
106-44-5	4-Methyphenol	SVOC	340,000	NA													ND	ND	ND	ND	ND	ND	
100-01-6	4-Nitroaniline	SVOC	NA	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
100-02-7	4-Nitrophenol	SVOC	NA	NA	240 U	250 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	260 U	ND	ND	ND	ND	ND	ND	
83-32-9	Acenaphthene	SVOC	37,000,000	100	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	ND	ND	ND	ND	ND	ND	
208-96-8	Acenaphthylene	SVOC	300,000,000	NA	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	ND	ND	ND	ND	ND	ND	
98-86-2	Acetophenone	SVOC	5,000	NA	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
62-53-3	Aniline	SVOC	NA	NA	210 U	210 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	ND	ND	ND	ND	ND	ND	
120-12-7	Anthracene	SVOC	30,000,000	100	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	ND	ND	ND	ND	ND	ND	
1912-24-9	Atrazine	SVOC	2,400,000	NA	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	ND	ND	ND	ND	ND	ND	
100-52-7	Benzaldehyde	SVOC	68,000,000	NA	230 U	230 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	240 U	ND	ND	ND	ND	ND	ND	
56-55-3	Benz-a-Anthracene	SVOC	2,000	500	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	ND	ND	ND	ND	ND	ND	
50-32-8	Benz-a-Pyrene	SVOC	200	100	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	ND	ND	ND	ND	ND	ND	
205-99-2	Benz-b-Fluoranthene	SVOC	2,000	50	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	ND	ND	ND	ND	ND	ND	
207-08-9	Benzo-k-Fluoranthene	SVOC	23,000	500	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	ND	ND	ND	ND	ND	ND	
191-24-2	Benzo-g,h,i-Perylene	SVOC	30,000,000	NA	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	ND	ND	ND	ND	ND	ND	
65-85-0	Benzolic Acid	SVOC	NA	NA	560 U	580 U	590 U	590 U	590 U	590 U	590 U	590 U	590 U	590 U	590 U	590 U	ND	ND	ND	ND	ND	ND	
100-51-6	Benzyl Alcohol	SVOC	NA	50	170 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	ND	ND	ND	ND	ND	ND	
111-44-4	Bis(2-Chloroethyl)ether	SVOC	2,000	10	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	ND	ND	ND	ND	ND	ND	
108-60-1	Bis(2-Chloroisopropyl)ether	SVOC	67,000	10	210 U	210 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U	ND	ND	ND	ND	ND	ND	
117-81-7	Bis(2-Ethylhexyl)Phthalate																						

Attachment B - Table 3 - Characterization Sampling Results for 400 Park Avenue South, New York, New York

CAS Number	Parameter Name	Parameter ID	NJ NRDCSRs	NJ IGWSRS	WC-1 COMP NATIVE	WC-1A GRAB NATIVE (22')	WC-3 COMP NATIVE	WC-3A NATIVE 'GRAB (23.5')	WC-4 COMP NATIVE	WC-4A NATIVE 'GRAB (23.5')	WC-5 COMP NATIVE	WC-5A GRAB VOC	WC-6 COMP NATIVE	WC-6A GRAB VOC	WC-7 COMP NATIVE	WC-7A GRAB VOC	WC-8A	WC-2B	WC-4A	WC-4B	WC-6A	WC-6B	
					Q	(Q)	Q	(Q)	Q	(Q)	Q	Q	Q	Q	Q	Q	ELB-2 21.5-22, ELB-1 15-27, ELB-2 10-24.5	ELB-4 14-15, ELB-4 12-23	ELB-3 6-20, ELB-4 14-15, ELB-4 12-23	ELB-5 20-20.5	ELB-6 9-30		
	Sample ID	Depth			ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	ug/kg.	10/20/2011	10/21/2011	10/24/2011	10/25/2011	10/28/2011	10/29/2011	
72-20-8	Endrin	PESTICIDE	340,000	50	0.696	U	0.68	U	0.739	U	0.724	U	0.694	U	0.712	U					ND	ND	ND
58-89-9	gamma-BHC	PESTICIDE	2000	50	0.696	U	0.68	U	0.739	U	0.724	U	0.694	U	0.712	U					ND	ND	ND
5103-74-2	Gamma Chlordane	PESTICIDE	NA	NA	2.09	U	2.04	U	2.22	U	2.17	U	2.08	U	2.14	U					ND	ND	ND
76-44-8	Heptachlor	PESTICIDE	700	50	0.835	U	0.817	U	0.886	U	0.868	U	0.833	U	0.855	U					ND	ND	ND
1024-57-3	Heptachlor Epoxide	PESTICIDE	300	NA	3.13	U	3.06	U	3.32	U	3.26	U	3.12	U	3.21	U					ND	ND	ND
72-43-5	Methoxychlor	PESTICIDE	5,700,000	50	3.13	U	3.06	U	3.32	U	3.26	U	3.12	U	3.21	U					ND	ND	ND
56-38-2	Parathion	PESTICIDE	NA	NA	170	U	180	U	180	U	180	U	180	U	180	U							
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	1000	50																			
8001-35-2	Toxaphene	PESTICIDE	3000	50	31.3	U	30.6	U	33.2	U	32.6	U	31.2	U	32.1	U					ND	ND	ND
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
7429-90-5	Aluminum, Al	METAL	NA	NA	6600		6700		7000		4700		4700		6700						8250	5820	6620
7440-36-0	Antimony, Sb	METAL	450	Site Specific	1.3	J	2	U	2.1	U	2.1	U	2	U	2.1	U					<2.2	<2.3	<2.1
7440-38-2	Arsenic, As	METAL	19*	Site Specific	1.3		3.3		1.8		1.5		1.7		3.4						3.4	<2.3	<2.1
7440-39-3	Barium, Ba	METAL	59,000	Site Specific	51		46		60		26		39		54						64.9	40.6	49.3
7440-41-7	Beryllium, Be	METAL	140	Site Specific	0.34		0.37		0.36		0.24		0.26		0.29						<0.22	<0.23	<0.21
7440-43-9	Cadmium, Cd	METAL	78	Site Specific	0.42	U	0.39	J	0.29	J	0.2	J	0.23	J	0.29	J					<0.55	<0.57	<0.52
7440-47-3	Chromium, Cr	METAL	NA	NA	13		18		17		10		9.4		14						22.7	17.4	19.2
18540-29-9	Chromium, hexavalent	METAL	NA	Site Specific	0.26	J	0.86	U	0.21	J	0.38	J	0.86	U	0.39	J							
16065-83-1	Chromium, trivalent	METAL	NA	Site Specific																			
7440-48-4	Cobalt, Co	METAL	590	NA	6.4		5.4		4.6		3.2		3.8		4.9						21.3	<5.7	6.5
7440-50-8	Copper, Cu	METAL	45000	Site Specific	23		18		18		12		12		20						19	18.8	19.1
57-12-5	Cyanide	METAL	23,000	Site Specific	0.29	J	1	U	1.1	U	1	U	1	U	1.1	U					<0.26	<0.25	<0.24
7439-89-6	Iron, Fe	METAL	NA	NA	11000		16000		12000		8700		8900		11000						15900	12100	13800
7439-92-1	Lead, Pb	METAL	800	Site Specific	13		7.9		7.5		5.1		10		42						11.3	9.1	9.3
7439-96-5	Manganese, Mn	METAL	5,900	NA	240		170		180		100		170		230						328	194	331
7439-97-6	Mercury, Hg	METAL	65	Site Specific	0.07	U	0.09	U	0.08	U	0.08	U	0.09	U	0.37						<0.0	<0.0	<0.0
7440-02-0	Nickel, Ni	METAL	23,000	Site Specific	14		9.6		9.6		6.8		7		9.4						50	11.7	16.6
7782-49-2	Selenium, Se	METAL	5,700	Site Specific	0.44	J	0.82	U	0.85	U	0.84	U	0.81	U	0.86	U					<2.2	<2.3	<2.1
7440-22-4	Silver, Ag	METAL	5,700	Site Specific	0.42	U	0.41	U	0.42	U	0.42	U	0.41	U	0.43	U					<0.55	<0.57	<0.52
7440-28-0	Thallium, Tl	METAL	79	Site Specific	0.32	J	0.82	U	0.85	U	0.84	U	0.81	U	0.86	U					<1.1	<1.1	<1.0
7440-62-2	Vanadium, V	METAL	1,100	Site Specific	20		26		20		17		16		20						26.1	26	27
7440-66-6	Zinc, Zn	METAL	110,000	Site Specific	34		30		29		18		23		38						58.7	29.4	31
pH	pH	NA	NA	NA	7.9		7.8		7.5		7.5		8.2		8.3								
TPH	TPH	NA	NA	NA	35.2	U	34.8	U	36.2	U	35.1	U	4.02	J	12.5	J							

Notes: Shaded values indicate an exceedance of GM Linden Clean Cover Fill Criteria values.

Quarterly Report No. 12 - Retail Redevelopment Area (Former GM Linden)

Attachment B - Table 3 - Characterization Sampling Results for 400 Park Avenue South, New York, New York

CAS Number:	Parameter Name:	Parameter ID:	TCLP Hazardous Waste Regulatory Levels	WC-1-COMP	WC-3-COMP	WC-4-COMP	WC-5-COMP	WC-6-COMP	WC-7-COMP	WC-2B	WC-4B	WC-6B						
				NATIVE	NATIVE	NATIVE	NATIVE	NATIVE	NATIVE									
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
7440-38-2	Arsenic, As	METAL	5	1	U	0.02	J	1	U	0.02	J	<0.50	<0.50	<0.50				
7440-39-3	Barium, Ba	METAL	100	0.48	J	0.29	J	0.34	J	0.23	J	0.29	J	<1.0	<1.0			
7440-43-9	Cadmium, Cd	METAL	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	<0.0050	<0.0050			
7440-47-3	Chromium, Cr	METAL	5	0.2	U	0.2	U	0.02	J	0.2	U	0.02	J	0.2	U	0.022	<0.01	<0.01
7439-92-1	Lead, Pb	METAL	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	<0.50	<0.50	0.79		
7439-97-6	Mercury, Hg	METAL	0.2	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	<0.00020	<0.00020	<0.00020		
7782-49-2	Selenium, Se	METAL	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	<0.50	<0.50	<0.50		
7440-22-4	Silver, Ag	METAL	5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	<0.010	<0.010	<0.010		

**COMPACT DISC WITH LABORATORY REPORTS
AND FILL CERTIFICATION DOCUMENTATION**